

Pro Form Products Ltd. 604 McGeachie Drive Milton, Ontario, L9T 3Y5 Canada 905-878-4990

PRODUCT: **PB1402-4 CITRIS BRIGHTENER**

SECTION 01: IDENTIFICATION

Initial supplier identifier..... Pro Form Products Ltd. 604 McGeachie Drive

Milton, Ontario L9T3Y5 Tel (905) 878-4990 Fax (905) 878-1189

Product identifier..... PB1402-4 CITRIS BRIGHTENER

Recommended use and restrictions on ...

Cleaner. for industrial use only-keep out of reach of children .

Chemical family.....

H: 3 F: 1 R: 0.

NFPA rating.....

Mixture. Health: 3 Fire: 1 Reactivity: 0.

HMIS..... 24 hour emergency number:....

For transportation emergencies (in Canada) call CANUTEC 1-888-226-8832 (CAN-UTEC); IN THE UNITED STATES CALL CHEMTREC 1-800-424-9300.

** For medical emergencies contact your local poison control centre **.

SECTION 02: HAZARD IDENTIFICATION



Signal WordHazard Classification	DANGER.
Hazard Classification	Flammable Liquid 4. Skin Corrosion — Category 1. Serious Eye Damage — Category 1. Health Hazard Not Otherwise Classified 1. Causes serious damage to the respiratory tract.
Hazard Description	H227 Combustible liquid. H314 Causes severe skin burns and eye damage. H318 Causes
.	serious eye damage.
Prevention	P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking. P260 Do
	not breathe mist, vapours, or spray. P264 Wash thoroughly after handling. P280 Wear
_	protective gloves and eye protection.
Response	P370 + P378 In case of fire - use dry chemical powder, CO2 or foam to extinguish. P303 +
	P361 + P353 If on skin or in hair: take off all contaminated clothing immediately. Rinse
	thoroughly with water and use safety shower . P363 - Wash contaminated clothing before
	reuse. P305 + P351 + P338 If in eyes rinse cautiously with water for several minutes.
	Remove contact lenses, if present and easy to do. Continue rinsing until medical help
	arrives. P304 + P340 - If inhaled remove person to fresh air and keep comfortable for
	breathing. P301 + P330 + P331 If Swallowed: Rinse mouth. Do NOT induce vomiting.
	P310 - Immediately call your local poison control centre.
Storage	P403 Store in a well ventilated area. P405 Store locked up.
StorageDisposal	P501 Dispose all unused, waste or empty containers in accordance with local regulations.
Note	

SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS			
CHEMICAL NAME AND SYNONYMS	CAS#	WT. %	
Disodium metasilicate	6834-92-0	3-7	
2-Butoxyethanol	111-76-2	3-7	
Benzenesulfonic acid, C10-16 alkyl derivatives	68584-22-5	1-5	
Phosphoric Acid	7664-38-2	1-5	
Sodium hydroxide	1310-73-2	1-5	
Tetrasodium EDTA	64-02-8	0.5-1.5	

<<The actual concentration(s) withheld as a trade secret>> .

SECTION 04: FIRST-AID MEASURES

Eye contact	Check for and remove any contact lenses, if safe and easy to do so. Immediately flush eyes with running water for a minimum of 30 minutes preferably up to 60 minutes. Get
Skin contact	medical attention immediately. Remove all contaminated clothing and immediately wash the exposed areas with copious amounts of water for a minimum of 30 minutes or up to 60 minutes for critical body areas. If irritation persists, seek medical attention.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen, obtain medical attention.
Ingestion	If ingestion is suspected, contact physician or poison control center immediately. If
Most important symptoms and effects,	spontaneous vomiting occurs have victim lean forward with head down to prevent aspiration of fluid into the lungs. Never give anything by mouth to an unconscious person. Causes severe skin burns and eye damage. Symptoms may include stinging, tearing.
Most important symptoms and effects, whether acute or delayed	Causes severe skin burns and eye damage. Sýmptoms may include stinging, tearing, redness, swelling, and blurred vision. Direct contact with eyes may cause temporary
Additional information	irritation. Causes serious injury to the respiratory system. Treat victims symptomatically. In the event of an incident involving this product ensure that medical authorities are provided a copy of this safety data sheet.

SECTION 05: FIRE-FIGHTING MEASURES

Firefighter should be equipped with self-contained breathing apparatus and full protective clothing to protect against potentially toxic and irritating fumes. Cool fire-exposed containers with cold water spray. Heat will cause pressure buildup and may cause explosive rupture. Keep run-off water from entering sewers and other waterways. Dike for water control.

Specific hazards arising from thehazardous product, such as the nature of any hazardous combustion products

Oxides of carbon (CO, CO2). Hydrocarbon fumes and smoke. Acidic fumes.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Methods and materials for containment and cleaning up

Dike area to contain the spill, prevent runoff from going into drains, absorb residual material with an inert absorbent, shovel or pump to a properly labelled container and dispose of as a hazardous waste.

SECTION 07: HANDLING AND STORAGE

Conditions for safe storage, including any incompatibilities

Keep container closed when not in use. Store away from all sources of heat and ignition. Store away from oxidizing and reducing materials. Store away from sunlight. May be corrosive to aluminum.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	TWA ACGI	H TLV STEL	OSHA PEL	NPEL STEL	NIOSH REL
Disodium metasilicate	2 mg/m3 (analogy)	Not Established	Not Established	Not Established	Not Established
2-Butoxyethanol	20 ppm	No data	50 ppm (240 mg/m3)	No data	5 ppm (24 mg/m3)



SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	TWA	CGIH TLV STEL	OSH <i>A</i> PEL	A PEL STEL	NIOSH REL
Benzenesulfonic acid, C10-16 alkyl derivatives	Not Established	Not Established	Not Established	Not Established	Not Established
Phosphoric Acid	1 mg/m3	3 mg/m3	1 mg/m3	3 mg/m3	1 mg/m3
Sodium hydroxide	2 mg/m3	Not Established	2 mg/m3	Not Established	Not Established
Tetrasodium EDTA	Not Established	Not Established	Not Established	Not Established	Not Established
Appropriate engineering Personal Protective Equ		Provide natural or mecha exposure limits. Local mecontamination, such as or gases and fumes that may ventilation (ie. ACGIH indiadequate ventilation.	chanical exhaust venti ben process equipmen y be emitted. Standard	lation should be used a it, or during purging ope I reference sources reg	t sources of air erations, to capture arding industrial
Respiratory/type Eye/type Gloves/ type		Local exhaust ventilation in when contaminant levels of Chemical safety goggles as Wear skin protection equipments work to be done.	exceed the recommen and full faceshield if a	ded exposure limits. splash hazard exists.	
Clothing/type Footwear/type Other/type		Wear adequate protective	ulations. eye wash stations sho	uld be available. Emplousing tobacco products.	oyees should wash

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

pH	Liquid. No data. Characteristic odour. Not available. No Data. < 0 °C. > 100° C. 62 C. (estimate; lowest flash point ingredient). Similar to water. Not applicable. No data. No Data. No data. Similar to water. 8.39 lbs/USG; 1.005. Soluble. No Data. > 230 C. Not available. No data. 1.87 lbs/USG.
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SECTION 10: STABILITY AND REACTIVITY

Reactivity Avoid heat, sparks and flames. Explosive reactions can occur in the presence of strong oxidizing agents. Chemical stability..... Stable at normal temperatures and pressures. Possibility of hazardous reactions..... Hazardous polymerization will not occur. Conditions to avoid, including staticdischarge, shock or vibration Keep away from heat. Incompatible with strong oxidizers. Incompatible materails..... Strong oxidizing agents. Reducing agents. Hazardous decomposition products..... No hazardous decomposition products when stored and handled correctly.

INGREDIENTS	LC50	LD50

Disodium metasilicate > 2.06 g/m3

1153 mg/kg (oral, rat) mg/kg (dermal, rat)

>5000

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS		LC50	LD50
2-Butoxyethanol		450 ppm 4 hr rat	1300 mg/kg (rat oral) >2000 mg/kg (rabbit dermal)
Benzenesulfonic acid, C10-16 alkyl derivative	es	Not Available	Not Available
Phosphoric Acid		1.689 mg/L 1 hour rabbit	1,530 mg/kg rat oral 2,740 mg/kg rabbit dermal
Sodium hydroxide		No Data	104-340 mg/kg oral rat 1350 mg/kg dermal rabbit
Tetrasodium EDTA		Not Available	Not Available
Route of exposure Effects of acute exposure Effects of chronic exposure	Hazardous in contact with irritation. Contact with ski respiratory system. Inhal dizziness, headache, nau	t. Inhalation. h skin, by ingestion, and by inhalat in can cause severe irritation. Caus ation of high vapour may cause ce usea, or loss of coordination. tions of vapour may cause anesthe	ses serious injury to the ntral nervous system effects,
Carcinogenicity of material	effects. Prolonged or rep Intentional misuse by del or fatal. No component of this pro as probable, possible or	eated skin contact may cause drying iberately concentrating and inhaling oduct present at levels greater that confirmed human carcinogen by boduct present at levels greater that	ng or cracking of skin. g this product may be harmful n or equal to 0.1% is identified ARC or ACGIH.

SECTION 12: ECOLOGICAL INFORMATION

Environmental	Do not allow to enter waters, waste water or soil.
Persistence and degradability	Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

Information on safe handling for disposal . and methods of disposal, including any contaminated packaging

Dispose of waste in accordance with all applicable Federal, Provincial/State and local regulations. Empty containers must be handled with care due to product residue.

SECTION 14: TRANSPORT INFORMATION

TDG Classification	UN1760 - CORROSIVE LIQUID, N.O.S. (Disodium metasilicate), Class 8, PG III. Limited
TDG Classification	Quantity Index: 5 L.
DOT Classification (Road)	UN1760 - CORROSIVE LIQUID, N.O.S. (Disodium metasilicate), Class 8, PG III. Ltd Qty
	(5 Liters/1.3 Gallons).
IATA Classification (Air)	UN1760 - CORROSIVE LIQUID, N.O.S. (Disodium metasilicate), Class 8, PG III. Limited
IMDG Classification (Marine)	Quantity. Do not ship by air without checking appropriate IATA regulations. UN1760 - CORROSIVE LIQUID, N.O.S. (Disodium metasilicate), Class 8, PG III. Limited
,	Quantity. Check IMDG regulations for limited quantity exemptions.
Marine Pollutant	Potential marine pollutant.
Proof of Classification	In accordance with Part 2.2.1 of the Transportation of Dangerous Goods Regulations (July 2, 2014) - we certify that classification of this product is correct

SECTION 15: REGULATORY INFORMATION

CEPA statusTSCA inventory statusOSHASARA Title III	On Domestic Substances List (DSL). All components are listed. This product is considered hazardous under the OSHA Hazard Communication Standard.
Section 302 - extremely hazardous	Sulphuric acid.
Section 311/312 - hazard categories Section 313 EPA hazardous air pollutants (HAPS) 40CFR63	Immediate health, delayed health. None above De minimus % limit. None.
California Proposition 65	***! WARNING: This product can expose you to chemicals including [see below], which are known to the State of California to cause cancer. (Strong inorganic acid mists containing sulfuric acid). For more information, go to www.P65Warnings.ca.gov.

SECTION 16: OTHER INFORMATION

Prepared by: REGULATORY AFFAIRS. Trivalent Data Systems Ltd. www.trivalent.com. (800) 387-7981.

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DISCLAIMER: All information appearing herein is based upon data obtained from experience and recognized technical sources. To the best of our knowledge, it is believed to be correct as of the date of issue but we make no representations as to its accuracy or sufficiency and do not suggest or guarantee that any hazards listed herein are the only ones which exist. The hazard information contained herein is offered solely for the consideration of the user, subject to his own investigation and verification of compliance with applicable regulations, including the safe use of the product under every foreseeable condition. The information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process.

Date of the latest revision of the safety .. data sheet

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